CSCI-MS
Selected Curriculum for

Interest in Computational Science
Advising Sheet

**Computer Science master's students are required to take one course
from each of the four groups listed below.**

Group "A"
- ☐ CSCE 5430 Software Engineering
- ☐ CSCE 5450 Programming Languages
- ☐ CSCE 5650 Compiler Design

Group "B"
- ☐ CSCE 5580 Computer Networks
- ☐ CSCE 5610 Computer System Architecture
- ☐ CSCE 5640 Operating Systems Design

Group "C"
- ☐ CSCE 5150 Analysis of Algorithms
- ☐ CSCE 5170 Graph Theory
- ☐ CSCE 5400 Automata Theory

Group "D"
- ☐ CSCE 5210 Artificial Intelligence
- ☐ CSCE 5350 Fundamentals of Database Systems
- ☐ CSCE 5550 Computer Security

Suggested Courses:

☐	**CSCE 5150**	Analysis of Algorithms	3 sch
☐	**CSCE 5170**	Graph Theory	3 sch
☐	**CSCE 5200**	Information Retrieval and Web Search	3 sch
☐	**CSCE 5210**	Artificial Intelligence	3 sch
☐	**CSCE 5213**	Modeling and Simulation	3 sch
☐	**CSCE 5215**	Machine Learning	3 sch
☐	**CSCE 5216**	Pattern Recognition	3 sch
☐	**CSCE 5220**	Computer Graphics	3 sch
☐	**CSCE 5230**	Methods of Numerical Computations	3 sch
☐	**CSCE 5400**	Automata Theory	3 sch
☐	**CSCE 5810**	Biocomputing	3 sch
☐	**CSCE 5820**	Computational Epidemiology	3 sch

Major Professors Comments/Suggestions:

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- *For MS with thesis, the total number of hours required is 30.*
- *For MS without thesis, the total number of hours required is 36.*
- *To continue in good standing, a student must maintain a 3.0 GPA overall.*
- *Only one organized course (not less than 3 sch), and up to 2 Internship courses (max 2 each) may be placed on the MS degree plan. All outside courses must have prior approval by the student's major professor with a justification written on the back of the degree plan.*